

**ALPHA WIRE COMPANY**  
**CUSTOMER PRODUCT SPECIFICATION**

Part Number: 2827  
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Issue: 5  
Issue Date: 11/16/2005  
Effective Date: 12/30/2005

**A. Construction**

Diameters

- |    |                |                                |       |
|----|----------------|--------------------------------|-------|
| 1) | Component 1    | 1 X 1 COND                     |       |
|    | a) Conductor   | 20 (19/32) AWG SPC             |       |
|    | b) Insulation  | 0.009" Wall, Nom. Teflon(PTFE) | 0.058 |
|    | (1) Color Code | Alpha Wire Color Code G        |       |

Cond	Color	Cond	Color	Cond	Color
1	WHITE				

- |    |             |                                     |                    |
|----|-------------|-------------------------------------|--------------------|
| 2) | Shield      | SPC BRAID Shield,90% Coverage, Min. |                    |
| 3) | Jacket      | 0.010" Wall, Nom.,PTFE Tape         | 0.100 (0.109 Max.) |
|    | a) Color(s) | WHITE                               |                    |

**B. Industry Approvals**

- |    |                |                        |              |
|----|----------------|------------------------|--------------|
| 1) | Military       |                        |              |
|    | a) Component 1 | MIL-W-16878/4 (Type E) | 200°C / 600V |
| 2) | Other          |                        |              |
|    | a) Component 1 | NEMA HP3-EXBGE         | 200°C / 600V |

- 3) EU Directive 2002/95/EC(RoHS):  
All materials used in the manufacture of this part are in compliance with EU Directive 2002/95/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment. Consult Alpha Wire's web site for compliance Date of Manufacture.
- 4) California Proposition 65: The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.

**C. Physical & Mechanical Properties**

- |    |                   |                    |
|----|-------------------|--------------------|
| 1) | Temperature Range | -55 to 200°C       |
| 2) | Bend Radius       | 10X Cable Diameter |
| 3) | Pull Tension      | 12.2 Lbs, Maximum  |

**D. Electrical Properties**

- (For Engineering purposes only)
- |    |                    |                             |
|----|--------------------|-----------------------------|
| 1) | Voltage Rating     | 600 V <sub>RMS</sub>        |
| 2) | Ground Capacitance | 80 pf/ft @1 kHz, Nominal    |
| 3) | Inductance         | 0.04 µH/ft, Nominal         |
| 4) | Conductor DCR      | 8.7 Ω/1000ft @20°C, Nominal |
| 5) | OA Shield DCR      | 7 Ω/1000ft @20°C, Nominal   |

**E. Other**

- |    |            |
|----|------------|
| 1) | Packaging  |
|    | a) 1000 FT |
|    | b) 100 FT  |

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